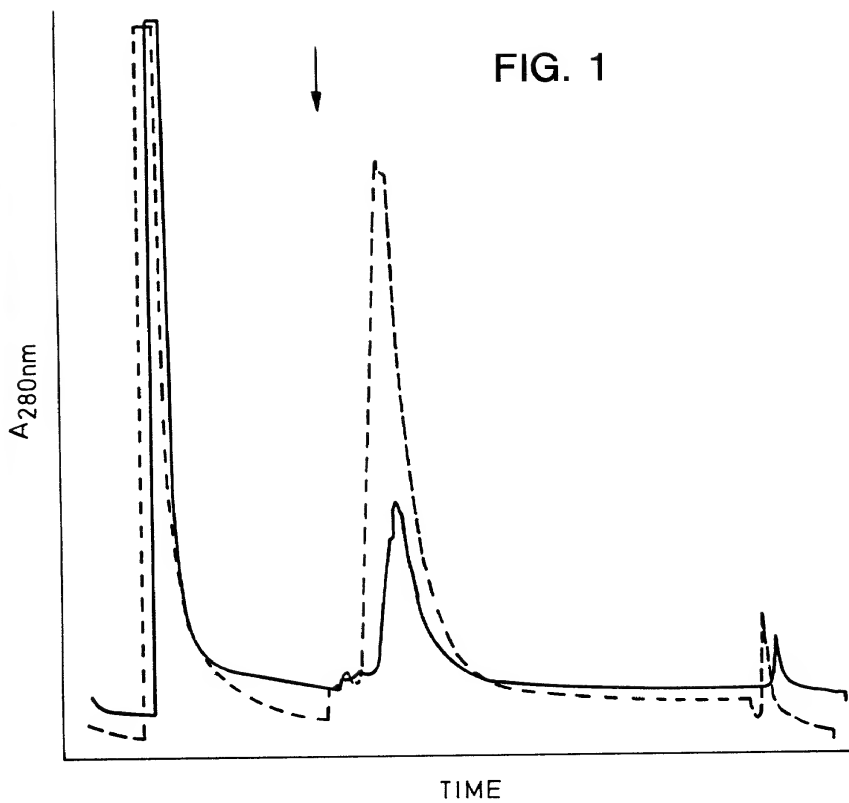


FIG. 1



[illegible]

FIG. 2A

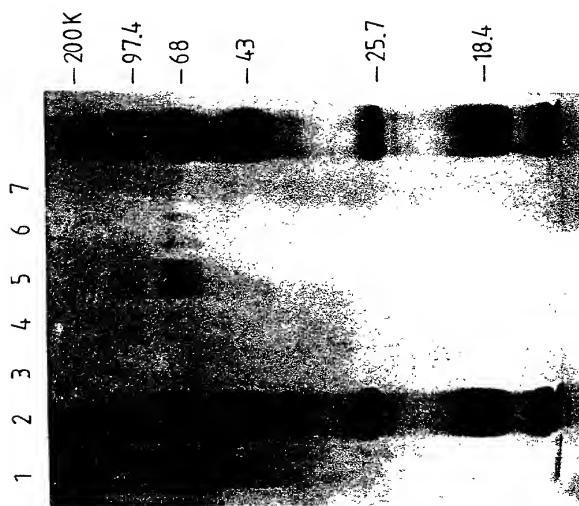


FIG. 2B

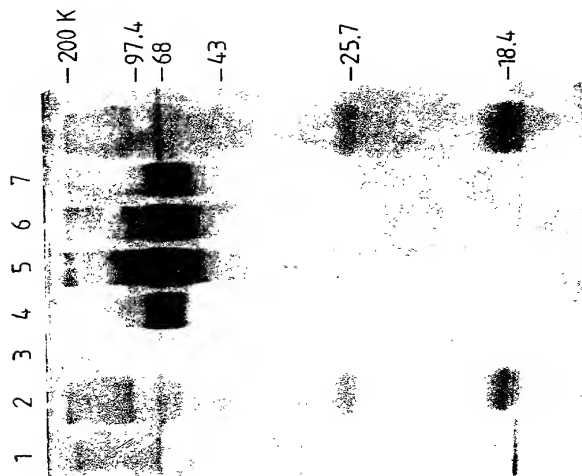


FIG. 3

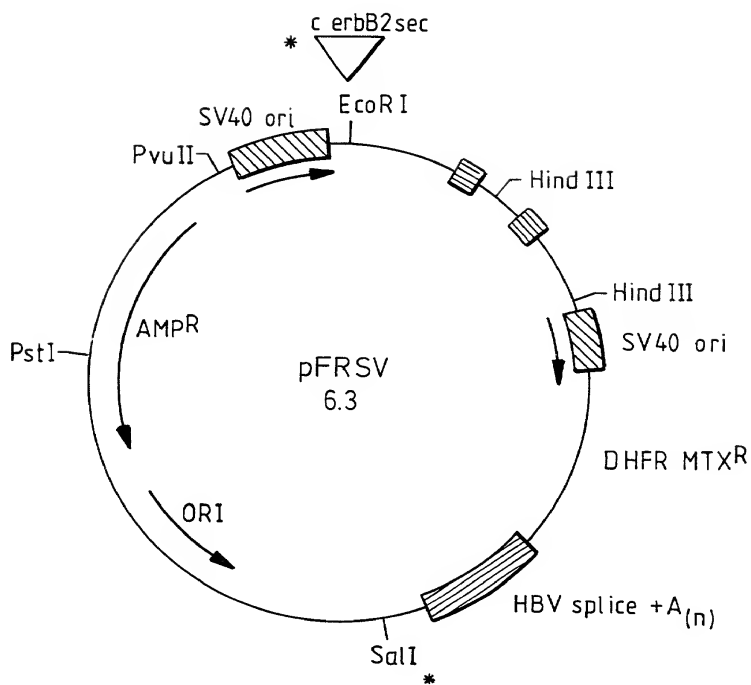


FIG. 4

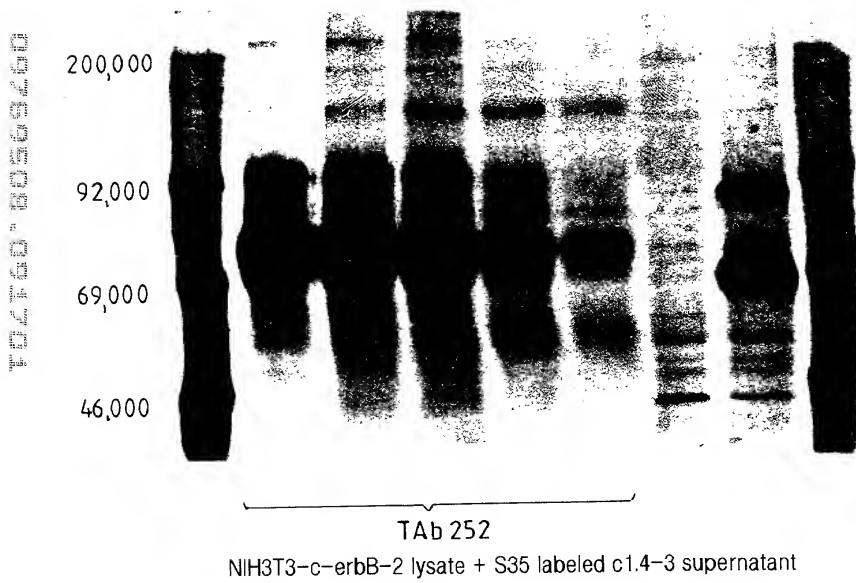


FIG. 5

Radioimmunoprecipitation of gp75 from SKBR3 Supernatant

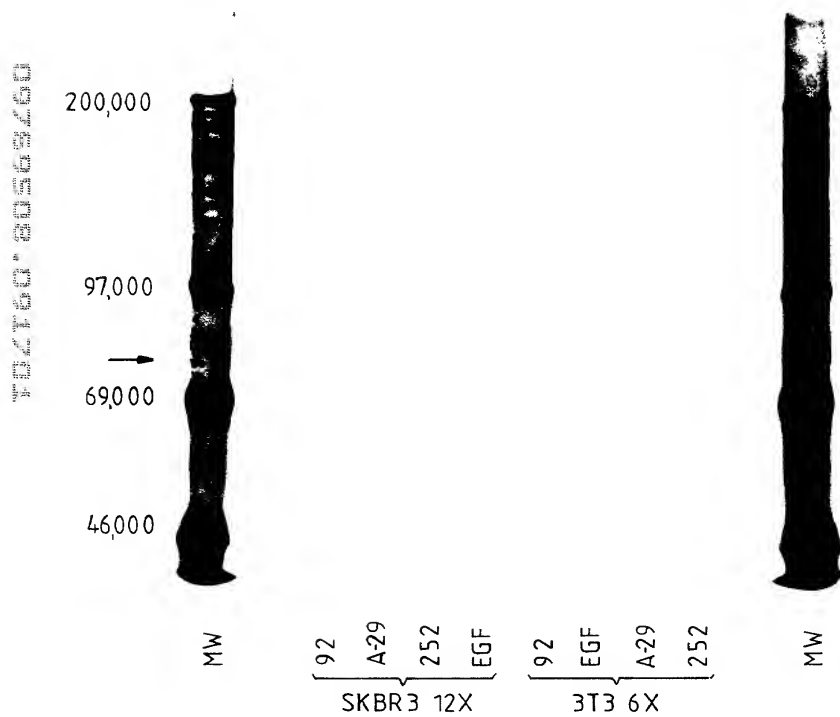
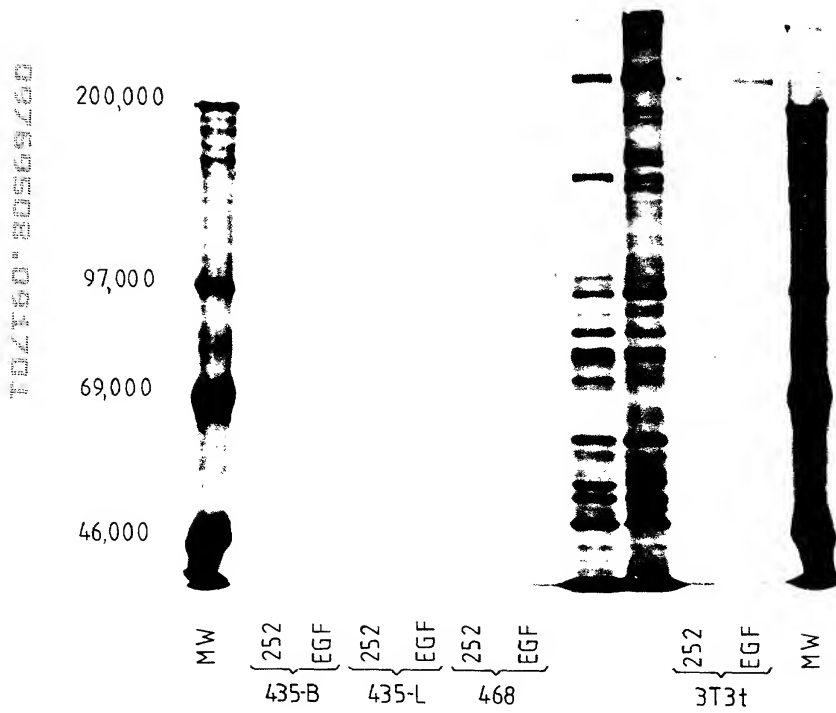


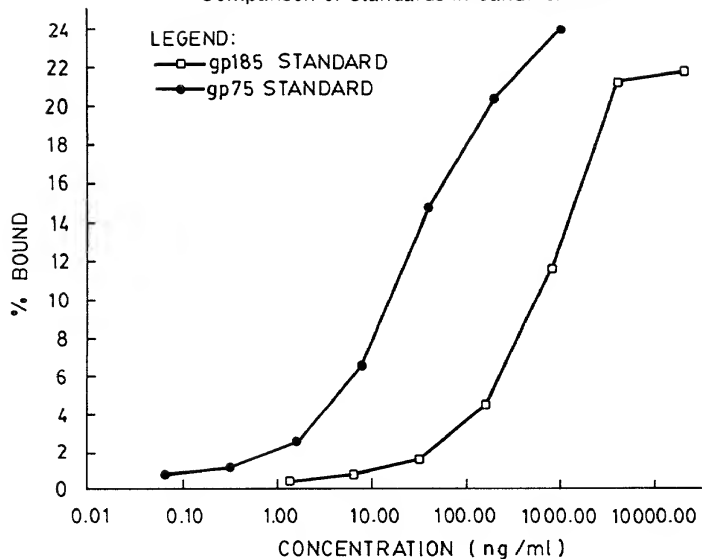
FIG. 6

Radioimmunoprecipitation of Supernatants From Various Cell Lines



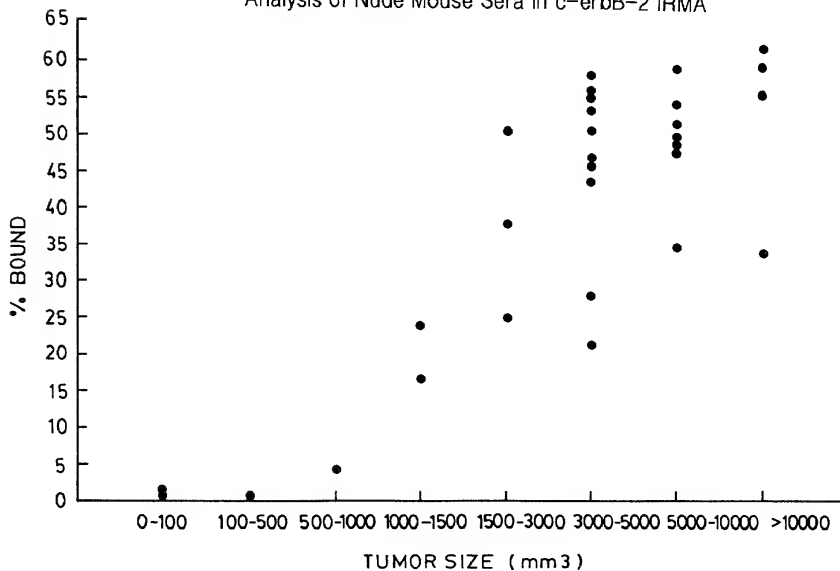
# FIG. 7

Comparison of Standards in Sandwich IRMA



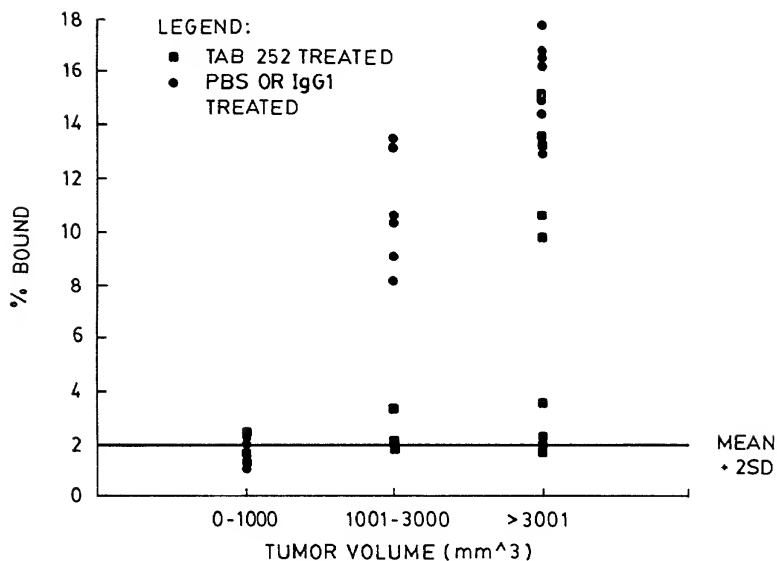
# FIG. 8

Analysis of Nude Mouse Sera In c-erbB-2 IRMA



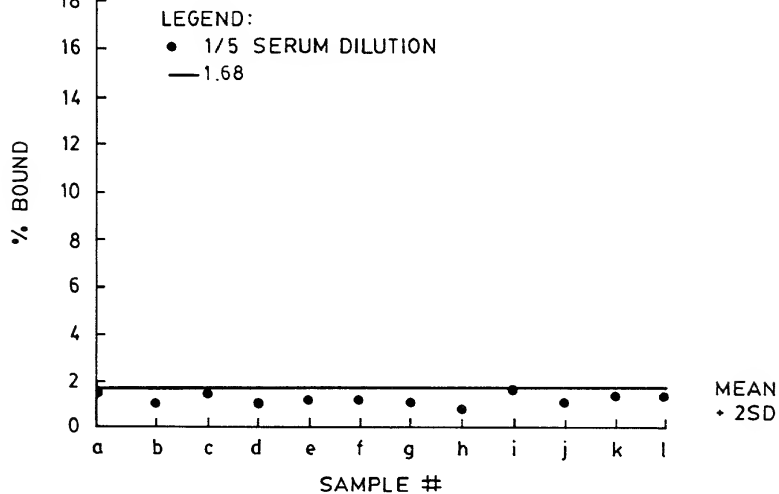
# FIG. 9

Analysis of Nude Mouse Sera in the c-erbB-2 IRMA  
Treated vs. Untreated



# FIG. 10

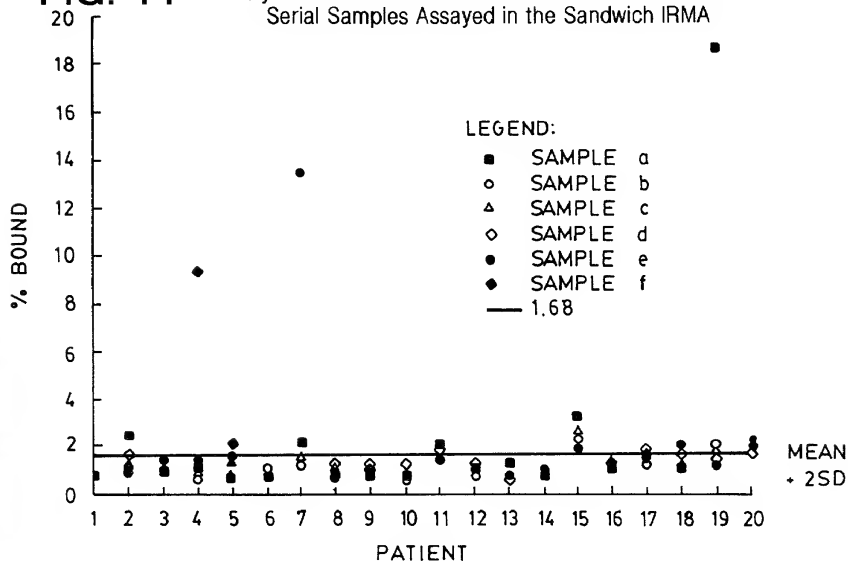
Analysis of Normal Human Sera in the c-erbB-2 IRMA





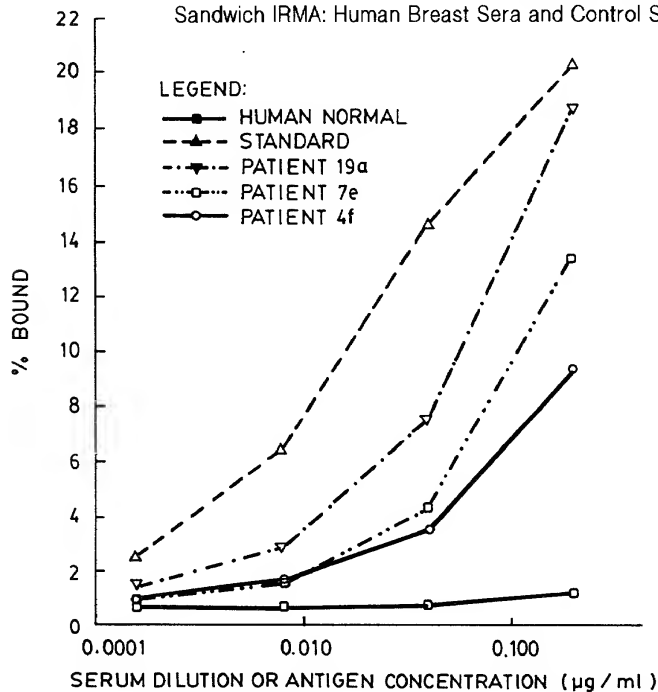
**FIG. 11**

Analysis of 20 Sera from Human Breast Cancer Patients  
Serial Samples Assayed in the Sandwich IRMA



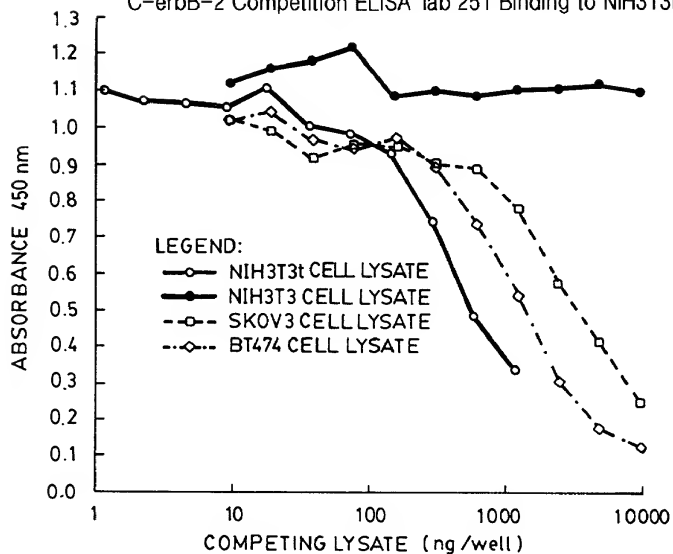
**FIG. 12**

Sandwich IRMA: Human Breast Sera and Control Sera



**FIG. 13**

C-erbB-2 Competition ELISA Tab 251 Binding to NIH3T3t Lysate



**FIG. 14**

C-erbB-2 Competition ELISA Tab 251 Binding to NIH3T3t Lysate

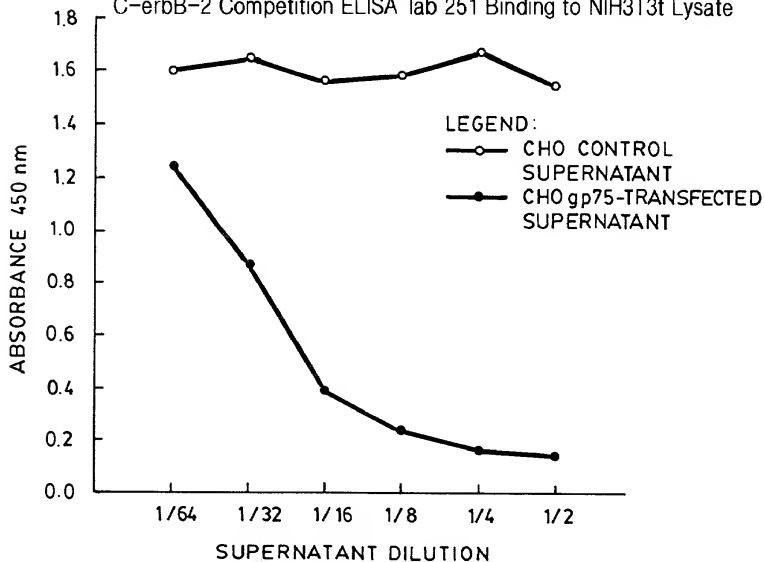
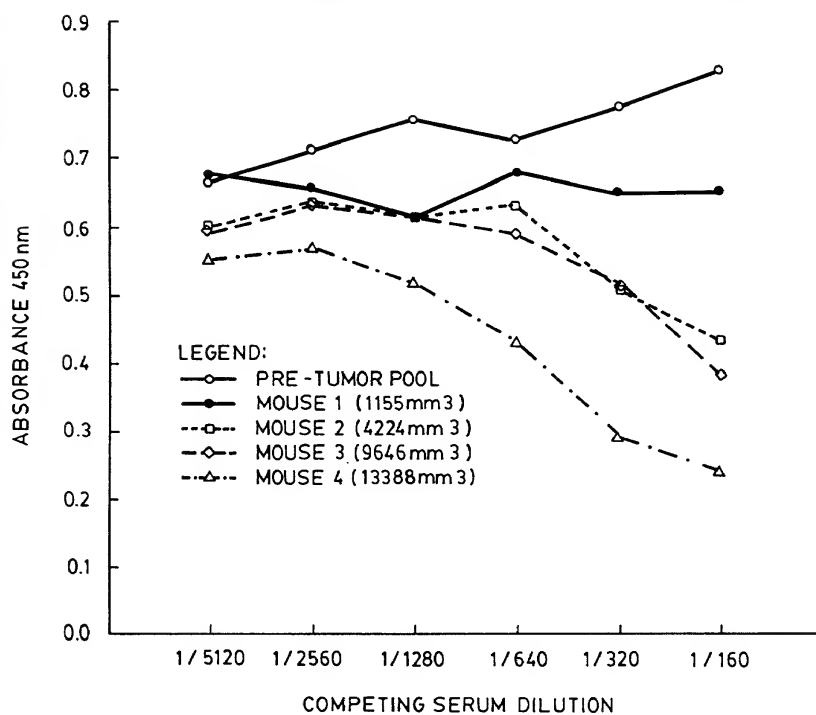


FIG. 15

C-erbB-2 Competition ELISA Tab 251 Binding to NIH3T3t Lysate



1 AATTCTCGAGCTCGTCGACCGGTGACGAGCTCGAGGGTCGACGAGC  
 1 10  
 MetGluLeuAlaAlaLeuCysArgTrpGlyLeuLeuLeuAlaLeuLe  
 151 ATGGAGCTGGCGGCCTTSTGCGCTGGGGGCTCCTCCTCGCCCTCTT  
 60  
 GlnGlyCysGlnValValGlnGlyAsnLeuGluLeuThrTyrLeuPr  
 301 CAGGGCTGCCAGGTGGTGCAGGGAAACCTGGAACCTCACCTACCTGCC  
 110  
 IleValArgGlyThrGlnLeuPheGluAspAsnTyrAlaLeuAlaVa  
 451 ATTGTGCGAGGCACCCAGCTCTTTGAGGACAACCTATGCCCTGGCCGT  
 160  
 GlyGlyValLeuIleGlnArgAsnProGlnLeuCysTyrGlnAspTh  
 601 GGAGGGGTCTTGATCCAGCGGAACCCCGAGCTCTGCTACCAGGACAC  
 210  
 GlySerArgCysTrpGlyGluSerSerGluAspCysGlnSerLeuTh  
 751 GGCTCCCGCTGCTGGGGAGAGAGTTCTGAGGATGTCAGAGCCTGC  
 260  
 AspCysLeuAlaCysLeuHisPheAsnHisSerGlyIleCysGluLe  
 901 GACTGCTGGCCCTGCTCCACTTCAACCACAGTGGCATCTGTGAGCT  
 310  
 TyrAsnTyrLeuSerThrAspValGlySerCysThrLeuValCysPr  
 1051 TACAACTACCTTTCTACGGACGTGGGATCTGACCCTCGTCTGCC  
 360  
 ArgGluValArgAlaValThrSerAlaAsnIleGlnGluPheAlaGl  
 1201 CGAGAGGTGAGGGCAGTTACCAGTGCCAATATCCAGGAGTTTGCTGG  
 410  
 GluThrLeuGluGluIleThrGlyTyrLeuTyrIleSerAlaTrpPr  
 1351 GAGACTCTGGAAGAGATCACAGGTACCTATACATCTCAGCATGGCC  
 460  
 SerTrpLeuGlyLeuArgSerLeuArgGluLeuGlySerGlyLeuAl  
 1501 AGCTGGCTGGGGCTGCGCTCACTGAGGGAACCTGGGCAGTGGACTGGC  
 510  
 GluAspGluCysValGlyGluGlyLeuAlaCysHisGlnLeuCysAl  
 1651 GAGGACGAGTGTGTGGGCGAGGGCCTGGCCCTGCCACCAGCTGTGCGC  
 560  
 ProArgGluTyrValAsnAlaArgHisCysLeuProCysHisProGl  
 1801 CCCAGGAGTATGTGAATGCCAGGCACTGTTTGGCGTGCACCCTGA  
 610  
 ProSerGlyValLysProAspLeuSerTyrMetProIleTrpLysPh  
 1951 CCCAGCGGTGTGAAACCTGACCTCTCTACATGCCCATCTGGAAGTT

FIG. 16A

TCGAGGGCGCGCGCCCGGCCCCCACCCTCGCAGCACCCCGCGCCCCCGC

20 30  
uProProGlyAlaAlaSerThrGlnValCysThrGlyThrAspMetLysLe  
GCCCCCGGAGCCGCGAGCACCCAAGTGTGCACCGGCACAGACATGAAGCT

70 80  
oThrAsnAlaSerLeuSerPheLeuGlnAspIleGlnGluValGlnGlyTy  
CACCAATGCCAGCCTGTCTTCCTGCAGGATATCCAGGAGGTGCAGGGCTA

120 130  
lLeuAspAsnGlyAspProLeuAsnAsnThrThrProValThrGlyAlaSe  
GCTAGACAATGGAGACCCGCTGAACAATACCACCCCTGTCACAGGGGCCCTC

170 180  
rIleLeuTrpLysAspIlePheHisLysAsnAsnGlnLeuAlaLeuThrLe  
GATTTTGTGAAGGACATCTTCCACAAGAACAACCAGCTGGCTCTCACACT

220 230  
rArgThrValCysAlaGlyGlyCysAlaArgCysLysGlyProLeuProTh  
GCGCACTGTGTGTGCCGGTGGCTGTGTGCCCGCTGCAAGGGGCCACTGCCCCAC

270 280  
uHisCysProAlaLeuValThrTyrAsnThrAspThrPheGluSerMetPr  
GCACGTGCCAGCCCTGGTGCACCTACAACACAGACACGTTTGTAGTCCATGCC

320 330  
oLeuHisAsnGlnGluValThrAlaGluAspGlyThrGlnArgCysGluLy  
CCTGCACAACCAAGAGGTGACAGCAGAGGATGGAACACAGCGGTGTGAGAA

370 380  
yCysLysLysIlePheGlySerLeuAlaPheLeuProGluSerPheAspGl  
CTGCAAGAAGATCTTTGGGAGCCTGGCATTCTGCCGGAGAGCTTTGATGG

420 430  
oAspSerLeuProAspLeuSerValPheGlnAsnLeuGlnValIleArgGl  
GGACAGCCTGCCTGCCTCAGCGTCTTCCAGAACCTGCAAGTAATCCGGGG

470 480  
aLeuIleHisHisAsnThrHisLeuCysPheValHisThrValProTrpAs  
CCTCATCCACCATAACACCCACCTGTGTTTCGTGCACACGGTGCCTGGGA

520 530  
aArgArgAlaLeuLeuGlySerGlyProThrGlnCysValAsnCysSerGl  
CCGCAGGGCACTGCTGGGGTCAGGGCCCACCCAGTGTGTCAACTGCAGCCA

570 580  
uCysGlnProGlnAsnGlySerValThrCysPheGlyProGluAlaAspGl  
GTGTGAGCCCCAGAATGGCTCAGTGACCTGTGTTTGGACCGGAGGCTGACCA

620 630  
eProAspGluGluGlyAlaCysGlnProCysProIleAsnCysThrHisSe  
TCCAGATGAGGAGGGCGCATGTCAGCCTTGCCCCATCAACTGACCCACTC

FIG. 16B

CCTCCCAGCCGGGTCCAGCCGGAGCCATGGGGCCGGAGCCGCGAGTGGAGCACC  
 40 50  
 uArgLeuProAlaSerProGluThrHisLeuAspMetLeuArgHisLeuTyr  
 GCGGCTCCCTGCCAGTCCCCAGACCCACCTGGACATGCTCCGCCACCTCTAC  
 90 100  
 rValLeuIleAlaHisAsnGlnValArgGlnValProLeuGlnArgLeuArg  
 CGTGCTCATCGCTCACAACCAAGTGAGGCAGGTCCCACTGCAGAGGCTGCGG  
 140 150  
 rProGlyGlyLeuArgGluLeuGlnLeuArgSerLeuThrGluIleLeuLys  
 CCCAGGAGGCCTGCGGGAGCTGCAGCTTCGAAGCCTCACAGAGATCTTGAAA  
 190 200  
 uIleAspThrAsnArgSerArgAlaCysHisProCysSerProMetCysLys  
 GATAGACACCAACCGCTCTCGGGCCGTCACCCCTGTTCTCCGATGTGTAAG  
 240 250  
 rAspCysCysHisGluGlnCysAlaAlaGlyCysThrGlyProLysHisSer  
 TGACTGCTGCTCATGAGCAGTGTGCTGCCGGCTGCACGGGGCCCCAAGCACTCT  
 290 300  
 oAsnProGluGlyArgTyrThrPheGlyAlaSerCysValThrAlaCysPro  
 CAATCCCAGGGGCCGTATACATTTCGGCGCCAGCTGTGTGACTGCCTGTCCC  
 340 350  
 sCysSerLysProCysAlaArgValCysTyrGlyLeuGlyMetGluHisLeu  
 GTGCAGCAAGCCCTGTGCCCGAGTGTGCTATGGTCTGGGCATGGAGCACTTG  
 390 400  
 yAspProAlaSerAsnThrAlaProLeuGlnProGluGlnLeuGlnValPhe  
 GGACCCAGCCTCCAACACTGCCCGCTCCAGCCAGAGCAGCTCCAAGTGT  
 440 450  
 yArgIleLeuHisAsnGlyAlaTyrSerLeuThrLeuGlnGlyLeuGlyIle  
 ACGAATTCTGCACAATGGCGCTACTCGCTGACCCTGCAAGGGCTGGGCATC  
 490 500  
 pGlnLeuPheArgAsnProHisGlnAlaLeuLeuHisThrAlaAsnArgPro  
 CCAGCTCTTTCGGAACCCGACCAAGCTCTGCTCCACACTGCCAACCGGCCA  
 540 550  
 nPheLeuArgGlyGlnGluCysValGluGluCysArgValLeuGlnGlyLeu  
 GTTCCTTCGGGGCCAGGAGTGGCTGGAGGAATGCCGAGTACTGCAGGGGGCTC  
 590 600  
 nCysValAlaCysAlaHisTyrLysAspProProPheCysValAlaArgCys  
 GTGTGTGGCCCTGTGCCCACTATAAGGACCCTCCCTTCTGCTGGCCCGCTGC  
 640 650  
 rCysValAspLeuAspAspLysGlyCysProAlaGluGlnArgAlaSerPro  
 CTGTGTGGACCTGGATGACAAGGGCTGCCCGCCGAGCAGAGAGCCAGCCCT



FIG. 16C

660  
 2101 LeuThrSerIleValSerAlaValValGlyIleLeuLeuValValVa  
 CTGACGTCCATCGTCTCTGCGGTGGTGGCATTCTGCTGGTCTGGT  
 710  
 2251 ThrProSerGlyAlaMetProAsnGlnAlaGlnMetArgIleLeuLy  
 ACACCTAGCGGAGCGATGCCCAACCAGGCGCAGATGCGGATCCTGAA  
 760  
 2401 AlaIleLysValLeuArgGluAsnThrSerProLysAlaAsnLysGl  
 GCCATCAAAGTGTGTGAGGGAAAACACATCCCCCAAAGCCAACAAAGA  
 810  
 2551 MetProTyrGlyCysLeuLeuAspHisValArgGluAsnArgGlyAr  
 ATGCCCTATGGCTGCTCTTAGACCATGTCCGGGAAAACCGCGGACG  
 860  
 2701 ValLeuValLysSerProAsnHisValLysIleThrAspPheGlyLe  
 GTGCTGGTCAAGAGTCCCAACCATGTCAAAATTACAGACTTCGGGCT  
 910  
 2851 HisGlnSerAspValTrpSerTyrGlyValThrValTrpGluLeuMe  
 CACCAGAGTGATGTGTGGAGTTATGGTGTGACTGTGTGGGAGCTGAT  
 960  
 3001 ValTyrMetIleMetValLysCysTrpMetIleAspSerGluCysAr  
 GTCTACATGATCATGGTCAAAATGTTGGATGATTGACTCTGAATGTCC  
 1010  
 3151 AspSerThrPheTyrArgSerLeuLeuGluAspAspAspMetGlyAs  
 GACAGCACCTTCTACCGCTCACTGCTGGAGGACGATGACATGGGGGA  
 1060  
 3301 SerThrArgSerGlyGlyGlyAspLeuThrLeuGlyLeuGluProSe  
 TCTACCAGGAGTGGCGGTGGGGACCTGACACTAGGGCTGGAGCCCTC  
 1110  
 3451 LeuProThrHisAspProSerProLeuGlnArgTyrSerGluAspPr  
 CTCCCCACACATGACCCCAGCCCTCTACAGCGGTACAGTGAGGACCC  
 1160  
 3601 SerProArgGluGlyProLeuProAlaAlaArgProAlaGlyAlaTh  
 TCGCCCCGAGAGGGCCCTCTGCCTGCTGCCCCGACCTGCTGGTGCCAC  
 1210  
 3751 GlyGlyAlaAlaProGlnProHisProProProAlaPheSerProAl  
 GGAGGAGCTGCCCCCTCAGCCCCACCCTCCTCCTGCCTTCAGCCCAGC  
 1255  
 LeuAspValProValEND  
 3901 CTGGACGTGCCAGTGTGAACCAGAAGGCCAAGTCCGCAGAAGCCCTG  
 4051 CTAAGGAACCTTCCTTCCTGCTTGAGTTCCCAGATGGCTGGAAGGGG  
 4201 CCCTTTCTCTCCAGATCCTGGGTACTGAAAGCCTTAGGGAAGCTGGC  
 4351 ATGGTGTCAAGTATCCAGGCTTTGTACAGAGTGCTTTTCTGTTAGTT  
 4501 TTGTCCATTGCAAATATATTTTGGAAAACAAAAA

FIG. 16D

670 680  
 lLeuGlyValValPheGlyIleLeuIleLysArgArgGlnGlnLysIleAr  
 CTTGGGGGTGGTCTTTGGGATCCTCATCAAGCGACGGCAGCAGAAGATCCG  
 720 730  
 sGluThrGluLeuArgLysValLysValLeuGlySerGlyAlaPheGlyTh  
 AGAGACGGAGCTGAGGAAGGTGAAGGTGCTTGGATCTGGCGCTTTTGGCAC  
 770 780  
 uIleLeuAspGluAlaTyrValMetAlaGlyValGlySerProTyrValSe  
 AATCTTAGACGAAGCATACGTGATGGCTGGTGTGGGCTCCCCATATGTCTC  
 △ 830  
 gLeuGlySerGlnAspLeuLeuAsnTrpCysMetGlnIleAlaLysGlyMe  
 CCTGGGCTCCCAGGACCTGCTGAAGTGGTGTATGCAGATTGCCAAGGGGAT  
 870 880 △  
 uAlaArgLeuLeuAspIleAspGluThrGluTyrHisAlaAspGlyGlyLy  
 GGCTCGGCTGCTGGACATTGACGAGACAGAGTACCATGCAGATGGGGGCCAA  
 920 930  
 tThrPheGlyAlaLysProTyrAspGlyIleProAlaArgGluIleProAs  
 GACTTTTGGGGCCAAACCTTACGATGGGATCCCAGCCCGGAGATCCCTGA  
 970 980  
 gProArgPheArgGluLeuValSerGluPheSerArgMetAlaArgAspPr  
 GCCAAGATTCCGGGAGTTGGTGTCTGAATTCTCCCGCATGGCCAGGGACCC  
 1020 1030  
 pLeuValAspAlaGluGluTyrLeuValProGlnGlnGlyPhePheCysPr  
 CCTGGTGGATGCTGAGGAGTATCTGGTACCCCAGCAGGGCTCTTCTGTCTC  
 1070 1080  
 rGluGluGluAlaProArgSerProLeuAlaProSerGluGlyAlaGlySe  
 TGAAGAGGAGGCCCCCAGGTCTCCACTGGCACCCCTCCGAAGGGGCTGGCTC  
 1120 1130  
 oThrValProLeuProSerGluThrAspGlyTyrValAlaProLeuThrCy  
 CACAGTACCCCTGCCCTCTGAGACTGATGGCTACGTTGCCCCCTGACCTG  
 1170 1180  
 rLeuGluArgAlaLysThrLeuSerProGlyLysAsnGlyValValLysAs  
 TCTGGAAAGGGCCAAAGACTCTCTCCCCAGGGAAGAATGGGGTCGTCAAAGA  
 1220 1230  
 aPheAspAsnLeuTyrTyrTrpAspGlnAspProProGluArgGlyAlaPr  
 CTTTCGACAACCTCTATTACTGGGACCAGGACCCACCAGAGCGGGGGGCTCC

ATGTGTCCTCAGGGAGCAGGGAAGGCCTGACTTCTGCTGGCATCAAGAGGT  
 TCCAGCCTCGTTGGAAGAGGAACAGCACTGGGGAGTCTTTGTGGATTCTGA  
 CTGAGAGGGGAAGCGGCCCTAAGGGAGTGTCTAAGAACAAAAGCGACCCAT  
 TTTACTTTTTTTGTTTTGTTTTTAAAGACGAAATAAAGACCCAGGGGAG

FIG. 16E